Workshop on Integrated CNS Technologies for Advanced Future Air Transportation Systems

Robert J. Kerczewski

NASA Glenn Research Center

Origin of the Workshop:
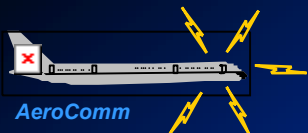
- NASA Glenn research and development in aeronautical communications for NASA's Aviation System Capacity Program and Aviation Safety Program.

  - *Need for a more comprehensive interaction with the aeronautical communications community.*
  - *Desire to foster greater coordination and collaboration across the aviation community to achieve long-term program goals.*
  - *Create a clearer framework within which NASA's aeronautical communications R&D fits.*

Origin of the Workshop (continued):
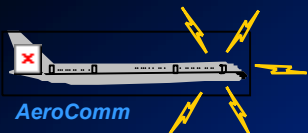
- "Workshop 0.1" – presentation of the final results of AATT Task Order 24, May 2, 2000 "*Communications System Architecture Development of Air Traffic Management & Aviation Weather Information Dissemination*" .

- "Workshop 0.2" – CNS Session at the Distributed Air Ground Traffic Management (DAG-TM) Workshop, NASA Ames Research Center, May 22-25, 2000.
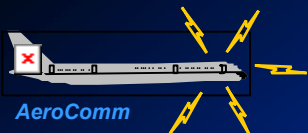
Goals of the Workshop:

- *Increase understanding of current efforts* in near and far term R&D of digital communications technologies and applications.
- *Identify R&D requirements* to enable the future vision for a safe, high capacity advanced air transportation system, and develop recommendations for how those requirements can be filled.
- *Develop a "road map" and an advocacy function* for developing and funding the necessary R&D programs to achieve the future vision for national and global air transportation.

AeroComm

The Executive Committee:

The Executive Committee will pull together the results of the Workshop and issue a final report, with an interim report presented on Thursday at 12:00.

The final report, as well as the workshop presentations, will be put on a CD-ROM and sent to all attendees.
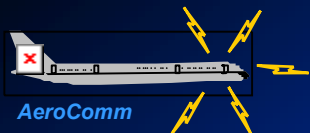
Jeanne Frazier
FAA

George Donahue
George Mason University

John Polky
Boeing ATM

Joe Burns
United Airlines

Randy Kenagy
AOPA

Bob Kerczewski
NASA Glenn

The Workshop Technical Organization Committee:
The NASA Glenn staff who developed the workshop agenda and technical approach:

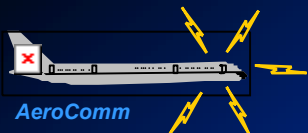**Denise Ponchak**
Chief, Project
   Development Branch

Mike Zernic
Manager, Aerocomm Projects
      (AeroSAPIENT, SATS)

Gus Martzaklis
Manager, WINCOMM

Bernice Beznoska
Project Development Branch

Bob Kerczewski
Manager, Advanced Comm. for Air Traffic Management

The Workshop Session Chairpersons:

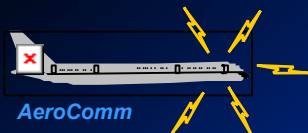|	
Session A:	Denise Ponchak, NASA Glenn
Session B:	Roy Oishi, ARINC
	Dave Olsen, FAA
Session C:	Mike Murphy, ATNSI
	Bob Kerczewski, NASA Glenn
Session D:	Jim Branstetter, FAA
	Mike Zernic, NASA Glenn
Session E:	Paul Mallasch, Scitor Enterprises
	Gus Martzaklis, NASA Glenn
Session F:	Chris Wargo, CNS, Inc.
	Mike Ball, University of Maryland

The Workshop Development Staff:

The staff responsible for all events, facilities, website, registrations and all logistics:

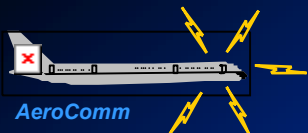*Joe Banks*   *Donna Clements*

Janice Haas   *Barb Wamsley*

Marian Cronin   *Matthew Mohr*
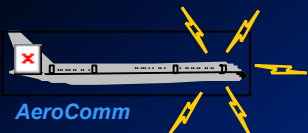
…all from Zin Technologies

The Evaluation Form:

Note the workshop evaluation form included in your handout package.

Please fill out and return this form!

Also, please feel free to offer comments and suggestions to the NASA Glenn Workshop Technical Staff.

Thank you!

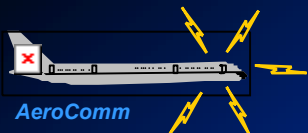## *Agenda:*

TUESDAY, MAY 1

Keynote Address – Mr. Sam Venneri, NASA Associate Administrator for Aerospace Technology

08:45 Session A: Visions of the Future of Air Transportation

Coffee Break

10:30 Session B: Current, Near and Mid-Term R&D and Demonstration Programs
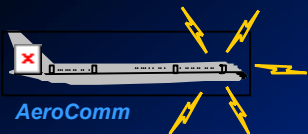
12:00 Lunch

Agenda:

TUESDAY, MAY 1 continued

13:30 Sessions C: Domestic Industry and International Communications/Datalink R&D and Demonstration Programs

Coffee Break

15:50 Session D: Near and Mid Term Issues and Needs

18:30 Dinner at the Crawford Auto Aviation Museum (Buses leave at 6:00 PM)
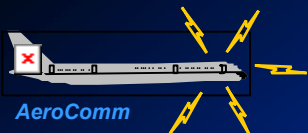
Agenda:

WEDNESDAY, MAY 2

08:15 Sessions E: Research and Technology Development for Far-Term Datalink Systems

Coffee Break

10:15 Session F: Perspectives on Far-Term Research Needs

12:30 Lunch

Agenda:

WEDNESDAY, MAY 2 continued

1:30-5:00 Breakout Sessions:

- *Near and Mid Term CNS Technology R&D Needs*
- *Far Term CNS Technology R&D Needs*
- *Assessment of Current CNS Technology R&D Programs*
- *2020 Operational Concept*
- *Organizing the R&D Community and Advocacy*
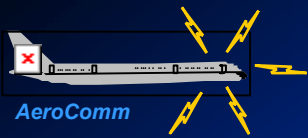
Agenda:

THURSDAY, MAY 3

08:30 Executive Committee Meeting at NASA Glenn

08:45 Tour of NASA Glenn

12:00 Report of Executive Committee, NASA Glenn Visitors Center

12:30 Adjourn